

# SUBMITTAL DATA SHEET



Series Name: Extreme Heat AHU Series  
Model Number: DLCURAH24ABK / DLFUAAH24XAK

## Wall Mounted Heat Pump System

|               |               |
|---------------|---------------|
| Location:     | Approval:     |
| Engineer:     | Date:         |
| Submitted to: | Construction: |
| Submitted by: | Unit #:       |
| Reference:    | Drawing #:    |



## INDOOR SPECIFICATION

|                                  |                             |                          |
|----------------------------------|-----------------------------|--------------------------|
| Indoor Air Flow (H/M/L) (CFM)    | 823.53/758.82/694.12/629.41 |                          |
| Indoor Noise Level (H/M/L) (dBA) | 39/36/33                    |                          |
| Dimension (WxDxH)                | inch                        | 21 x 17-1/2 x 45         |
|                                  | mm                          | 534 x 445 x 1143         |
| Package (WxDxH)                  | inch                        | 26-5/8 x 20-7/8 x 48-5/8 |
|                                  | mm                          | 675 x 530 x 1235         |
| Net/Gross Weight                 | lbs                         | 106/127                  |
|                                  | kg                          | 47.9/57.8                |

## OUTDOOR SPECIFICATION

|                              |             |                          |
|------------------------------|-------------|--------------------------|
| Compressor Type              | Twin-ROTARY |                          |
| Refrigerant                  | R410A       |                          |
| Factory Charge               | 670ml       |                          |
| Refrigerant Oil              | VG74        |                          |
| Outdoor Air Flow (Max) (CFM) | 3000        |                          |
| Outdoor Noise Level (dBA)    | 62          |                          |
| Dimension (WxDxH)            | inch        | 37-1/4 x 16-1/8 x 31-7/8 |
|                              | mm          | 946 x 410 x 810          |
| Package (WxDxH)              | inch        | 42-7/8 x 19-5/8 x 34-7/8 |
|                              | mm          | 1090 x 500 x 885         |
| Net/Gross Weight             | lbs         | 137/146                  |
|                              | kg          | 62/66                    |

## EFFICIENCY

| Cooling |      | Heating |      |
|---------|------|---------|------|
| SEER2   | 17.4 | HSPF2-4 | 10.0 |
| EER2    | 11.7 | COP     | 3.4  |

## PERFORMANCE of Cooling

| Cooling (Btu/hr)          |   |
|---------------------------|---|
| Rated Capacity            | 24000   |
| Min/Max Capacity          | 6400-27000  |
| Moisture Removal          | 1.98 L/H (4.18 pint/H)                              |
| Standard Operating Range  | 5°F-122°F (-15°C-50°C)                              |
| Rated Cooling Conditions: | Indoor: 80°F DB/67°F WB<br>Outdoor: 95°F DB/75°F WB |

## PERFORMANCE of Heating

| Heating (Btu/hr)  |   |
|---|---|
| 1. @ 47°F Rated (Min/Max)                                     | 24000(10100~31000)                                  |
| 2. @ 17°F Rated   | 19200   |
| 3. @ 5°F Max: Capacity / COP                                  | 22600 / 1.91  |
| Standard Operating Range                                      | -22°F-75°F (-30°C-24°C)                             |
| 1. Rated Heating Conditions:                                  | Indoor: 70°F DB/60°F WB<br>Outdoor: 47°F DB/43°F WB |
| 2. Rated Heating Conditions:                                  | Indoor: 70°F DB/60°F WB<br>Outdoor: 17°F DB/15°F WB |
| 3. Heating Conditions, Compressor Operating at Max. Frequency | Indoor: 70°F DB/60°F WB<br>Outdoor: 5°F DB/5°F WB   |

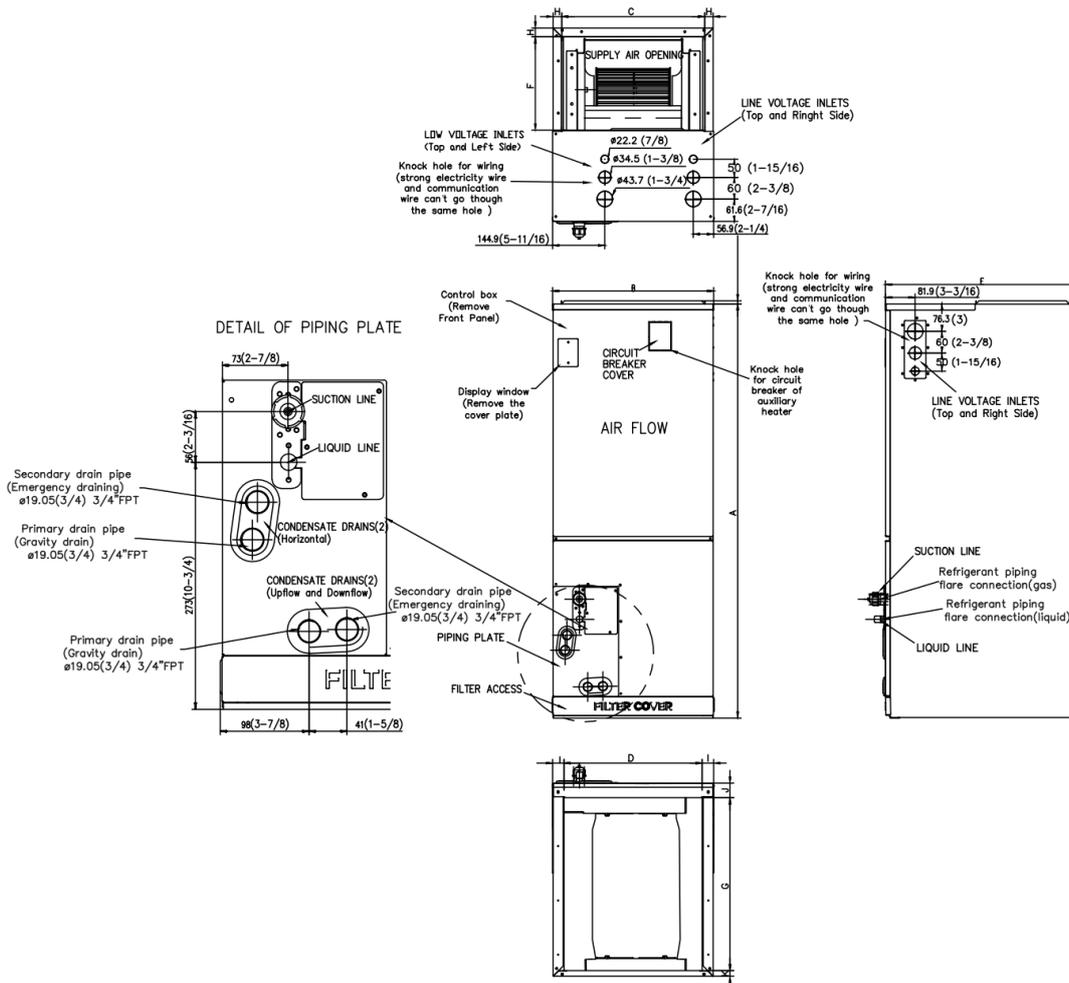
## ELECTRICAL

|                                    |  |
|------------------------------------|--|
| Power Supply                       | 208/230V, 1Ph, 60Hz                    |
| System MCA                         | 20.5/4                                 |
| Connection Wiring                  | AWG 14-2                               |
| System MOCP                        | 35/15                                  |
| Compressor RLA                     | 15                                     |
| Outdoor Fan Motor RLA              | 1.4                                    |
| Outdoor Fan Motor W                | 120                                    |
| Indoor Fan Motor RLA               | 3                                      |
| Indoor Fan Motor W                 | /                                      |
| System Power Input @ Cooling (W)   | 2050(740-2450)                         |
| System Power Input @ Heating (W)   | 2100(660-2900)                         |
| <b>Recommended breaker size(A)</b> | <b>30/15</b>                           |
| MCA: Min. circuit amps (A)         | MOCP: Max. over current protection (A) |
| RLA: Rated load amps (A)           | W: Fan motor rated output (W)          |

## PIPING

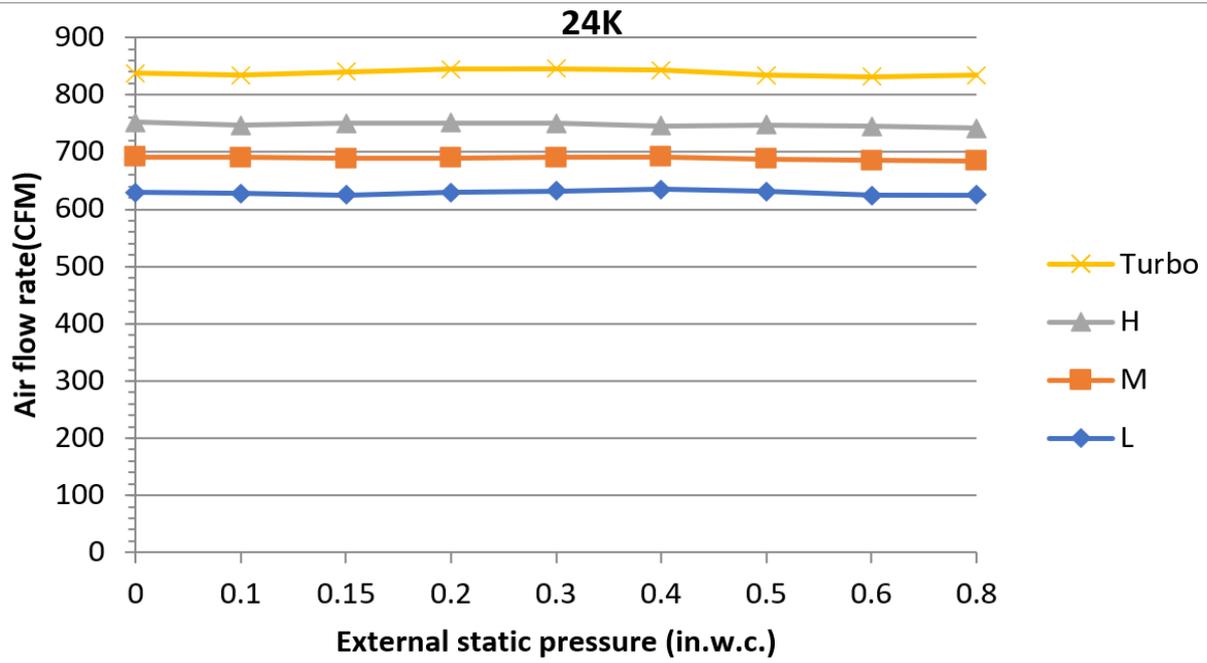
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|----------------------------------|-------------------|
| Liquid Size                      | 3/8in (9.52mm)    |
| Gas Size                         | 3/4in (19mm)      |
| Drain Size                       | 5/8in (15.88mm)   |
| Max. Piping Length               | 164ft (50m)       |
| Max. Height Difference           | 82ft (25m)        |
| Max. Pre-charged Length          | 25ft (7.5m)       |
| Refrigerant Pre-charged Amount   | 102.32oz (2901g)  |
| Additional Charge of Refrigerant | 0.69oz/ft (65g/m) |
| Connection Method                | Flared            |

### Indoor Unit Dimension

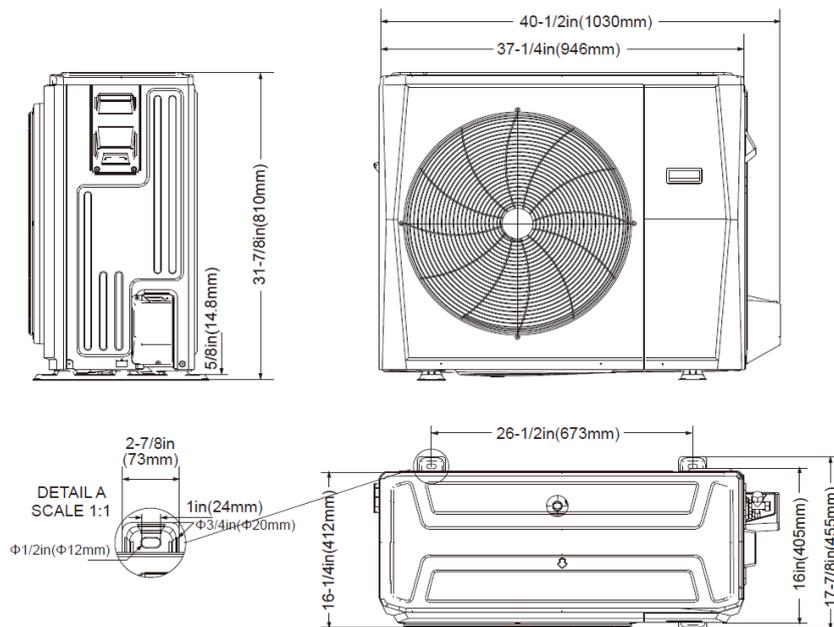


| Dimensions | Model                              | 18k/24k |      | 30k/36k |      | 48k/60k |      |
|------------|------------------------------------|---------|------|---------|------|---------|------|
|            |                                    | inch    | mm   | inch    | mm   | inch    | mm   |
| A          | Model Height                       | 45      | 1143 | 49      | 1245 | 53      | 1346 |
| B          | Model Width                        | 17-1/2  | 445  | 21      | 534  | 24-1/2  | 622  |
| C          | Supply Air Opening Width           | 15-5/8  | 397  | 19-1/8  | 486  | 22-5/8  | 575  |
| D          | Return Air Opening Width           | 15-1/8  | 384  | 18-5/8  | 473  | 22-1/8  | 562  |
| E          | Model Depth                        | 21      | 534  | 21      | 534  | 21      | 534  |
| F          | Supply Air Opening Depth           | 10-1/4  | 260  | 10-1/4  | 260  | 10-1/4  | 260  |
| G          | Return Air Opening Depth           | 18-3/4  | 476  | 18-3/4  | 476  | 18-3/4  | 476  |
| H          | Supply Air Opening Clearance       | 15/16   | 24   | 15/16   | 24   | 15/16   | 24   |
| I          | Return Air Opening Side Clearance  | 1-1/4   | 32   | 1-1/4   | 32   | 1-1/8   | 28   |
| J          | Return Air Opening Front Clearance | 1-1/2   | 38   | 1-5/8   | 41   | 1-5/8   | 41   |
| K          | Return Air Opening Back Clearance  | 5/8     | 16   | 5/8     | 16   | 3/4     | 19   |

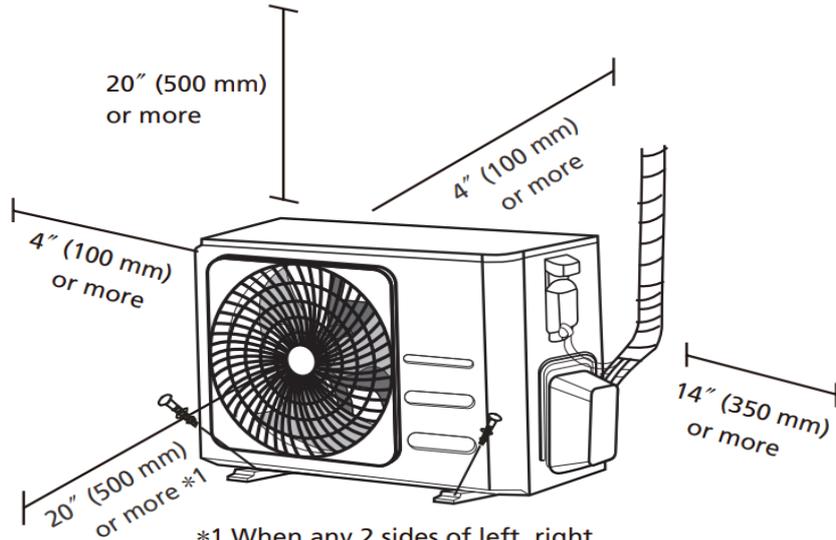
Fan Performance



Outdoor Unit Dimension



Install the unit by following local codes and regulations , there may be differ slightly between different regions.



\*1 When any 2 sides of left, right and rear of the unit are clear